

Claims

We Claim:

1. A device comprising:
  - a plurality of LEDs that produce at least two different spectra;
  - 6 a material configured to receive light emitted from the plurality of LEDs, and to display a color that is a combination of the spectra of the plurality of LEDs;
  - a processor, the processor generating a control signal, the control signal changing over time to produce from the consumer product a color-changing effect; and
  - a controller that receives the control signal, the controller controlling power delivered to one or more of the plurality of LEDs in response to the control signal; and
  - 12 a user interface adapted to receive a user input to control operation of the processor.
2. The device of claim 1 wherein the processor operates in one of a plurality of modes, each mode producing a lighting effect according to one or more parameters.
- 18 3. The device of claim 1 wherein the user interface consists of a single button.
4. The device of claim 1 wherein the user interface consists of two buttons.
5. The device of claim 1 wherein the user interface includes an adjustable input.
- 24 6. The device of claim 1 wherein the user interface includes at least one of a button, a dial, a slider, a knob, or a keypad.
7. The device of claim 1 wherein the color-changing effect includes at least one of a color wash, a strobe, a fade, or a Holiday lighting effect.
- 30 8. The device of claim 1 wherein the device comprises a consumer product.